INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/16926

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01M8/04, H01M8/00, G03B17/02, G03B17/18					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01M8/04, H01M8/00, G03B17/02, G03B17/18					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI/L					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
Y A	EP 0982788 A2 (GENERAL MOTOR 01 March, 2000 (01.03.00), Claims; Figure	S CORP.),	1-3,7-12, 14-17 4-6,13		
	& JP 2000-67896 A (GENERAL MOTORS CORP.), 03 March, 2000 (03.03.00), Claims; Fig. 1				
Y	JP 2002-20101 A (Honda Motor Co., Ltd.), 23 January, 2002 (23.01.02), Par. Nos. [0008], [0019]; Fig. 2 (Family: none)		1-3,7-12, 14-17		
Y	JP 2001-273915 A (Osaka Gas 05 October, 2001 (05.10.01), Claims; Par. Nos. [0020], [00 (Family: none)		1-3,7-12, 14-17		
□ Fueth	er documents are listed in the continuation of Box C.	See patent family annex.	· · · · · · · · · · · · · · · · · · ·		
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is		priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered novel or cannot be step when the document is taken alone			
special "O" docum means	o establish the publication date of another citation or other reason (as specified) ent referring to an oral disclosure, use, exhibition or other ent published prior to the international filing date but later	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such combination being obvious to a person document member of the same patent	when the document is `documents, such skilled in the art		
Date of the actual completion of the international search 02 February, 2004 (02.02.04) Date of mailing of the international search 17 February, 2004 (17.02.04)					
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No		Telephone No.			

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			P03/16926
C (Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant		Relevant to claim No.
Y	JP 2002-373684 A (Yamaha Motor Co., Ltd.), 26 December, 2002 (26.12.02), Par. Nos. [0081], [0102], [0148], [0158] (Family: none)		1-3,7-12, 14-17
Y	JP 2002-81331 A (Toyota Motor Corp.), 22 March, 2002 (22.03.02), Claim 5; Par. No. [0027] (Family: none)		1-3,7-12, 14-17
Y	JP 2002-56852 A (Sony Corp.), 22 February, 2002 (22.02.02), Claim 4; Par. No. [0047]; Fig. 1 (Family: none)		15-17
Y	JP 3-276576 A (Fuji Electric Co., Ltd.), 06 December, 1991 (06.12.91), Claims; Figs. 1 to 2 (Family: none)		15–17
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